PATENT COOPERATION TREATY

From the INTERN	e NATIONAL SEARCHING AUTHOR	ITY		An.	
Го:				PCT PCT	
			-	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	****	
	nt's or agent's file reference		FOR FURTHER ACTION		
	0055127		<u></u>	See paragraph 2 below	
i .	ional application No. /EP2004/007877	International filing date (day/month/year)	Priority date (day/month/year) 24.07.2003	
	ional Patent Classification (IPC) or both		dIPC	L	
I inci nat	rollar ratem Classification (II C) or ooth	i national classification and			
Applica	ni				
BAS	F AKTIENGESELLSCHA	AFT .			
1.	This opinion contains indications rela	ting to the following items	:		
	Box No. I Basis of the	opinion			
	Box No. II Priority				
	Box No. III Non-establis	shment of opinion with reg	gard to novelty, inventi	ive step and industrial applicability	
	Box No. IV Lack of unit	y of invention			
		atement under Rule 43bis.		novelty, inventive step or industrial ement	
	Box No. VI Certain docs	uments cited			
	Box No. VII Certain defe	ects in the international app	olication		
	Box No. VIII Certain obse	ervations on the internation	nal application		
2.	International Preliminary Examining	Authority ("IPEA") excep chosen IPEA has notified	t that this does not app the International Bur	If be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions of	
		oriate, with amendments,	before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.	
	For further options, see Form PCT/IS.	A/220.			
3.	For further details, see notes to Form	PCT/ISA/220.			
Name a	nd mailing address of the ISA/EP		Authorized officer		
	-				
F	I- N-		Tolonkov N		
Facsimi	IE NO.		Telephone No.		

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Box	x No. I	Basis of this opinion
l.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was , unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	-	. which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:

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Box No	II Priority	
1.	The following document has not yet been furnished:	
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).	
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).	- 1
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established of the assumption that the relevant date in the claimed priority date.	a i
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.	d e
3. A	ditional observations, if necessary:	

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citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims	1-14	YES
		Claims		NO
	Inventive step (IS)	Claims	1-14	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO

2. Citations and explanations:

D1: WO 03/043993 A (GRAMMENOS WASSILIOS;
RHEINHEIMER JOACHIM (DE); BASF AG (DE);
GEWEHR M) 30 MAY 2003 (2003-05-30)

D2: WO 02/074753 A (RHEINHEIMER JOACHIM; BASF AG (DE); GEWEHR MARKUS (DE); LORENZ GISELA)

26 September 2002 (2002-09-26)

Novelty

Document D1 discloses fungicidally effective 2-substituted pyrimidines of the formula I, including compounds in which radical R^4 has the meaning $-C(=O)NR^aR^b$ (cf. page 1, lines 4, 5; page 1, formula 1; page 2, line 46; page 17, line 36-page 19, line 4; pages 30-50, examples).

In view of the fact that the radical R^4 from D1 can also have other meanings, the subject matter of independent claims 1, 6-8 and 7-14 and of dependent claims 2-5 and 9 is to be regarded as being a formally novel selection from D1.

Document D2 discloses further fungicidally effective 2-substituted pyrimidines from which the compounds of the

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

formula I from claim 1 differ, however, by virtue of the fact that the substituent R^4 from formula I of claim 1 is acyclic (cf. page 1, lines 2, 3; page 1, formula I; page 24, line 14-page 25, line 9; pages 35-44, examples).

Inventive step

A distinguishing feature is the novel selection of the group R⁴ located in the 2 position on the pyrimidine. The experimental data shows that carboxamide according to the invention has the significantly better fungicidal effect compared to N-methoxyimidoamide from Dl. Moreover, the carboxylic esters used as intermediates also exhibit the better fungicidal effect (cf. description, pages 65, 66).

These compounds according to the invention have a common structural feature, namely the presence of at least one oxygen atom on the central carbon atom.

Accordingly, the objective problem underlying the new claims is to be regarded as being the provision of compounds with improved fungicidal effect within the scope of the general teaching from D1, of intermediates with a fungicidal effect and of a method for their preparation.

The solution to this problem consisted in specifically selecting, from the compounds of D1, the compounds which have the abovementioned common structural feature.

Since it was surprising that this selection leads to compounds with an improved fungicidal effect, the

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Box No. V	Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial appli citations and explanations supporting such statement	
inv	olvement of an inventive step must be acknowledged	for
the	new claims.	
Ind	lustrial applicability	
The	ere is no doubt that the subject matter of the prese	nt
cla	ims 1-9 is industrially applicable.	
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